



X-15984.ST25.txt  
SEQUENCE LISTING

<110> Eli Lilly and Company  
<120> GLP-1 Analog Fusion Proteins  
<130> X-15984  
<150> 60/477880  
<151> 2003-06-12  
<160> 21  
<170> PatentIn version 3.3  
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<213> Artificial  
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<223> Synthetic Construct  
  
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<222> (2)..(2)  
<223> Xaa at position 2 is Gly or Val  
<400> 1  
His Xaa Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Glu  
1 5 10 15  
Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Gly Gly  
20 25 30  
  
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<400> 2  
His Xaa Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Glu  
1 5 10 15  
Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Lys Asn Gly Gly Gly  
20 25 30

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1 5 10 15

Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Gly Pro  
20 25 30

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<400> 4

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1 5 10 15

Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Lys Asn Gly Gly Pro  
20 25 30

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<400> 5

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His Xaa Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Glu  
1 5 10 15

Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Gly  
20 25 30

<210> 6  
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<223> Xaa at position 2 is Gly or Val

<400> 6

His Xaa Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Glu  
1 5 10 15

Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Lys Asn Gly Gly  
20 25 30

<210> 7  
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<223> Xaa at position 16 is Pro or Glu

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<222> (17)..(17)  
<223> Xaa at position 17 is Phe, Val, or Ala

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<222> (18)..(18)  
<223> Xaa at position 18 is Leu, Glu, or Ala

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<222> (80)..(80)  
<223> Xaa at position 80 is Asn or Ala

<220>

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<222> (230)..(230)

<223> Xaa at position 230 is Lys or is absent

<400> 7

Ala Glu Ser Lys Tyr Gly Pro Pro Cys Pro Pro Cys Pro Ala Pro Xaa  
1 5 10 15

Xaa Xaa Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp  
20 25 30

Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp  
35 40 45

Val Ser Gln Glu Asp Pro Glu Val Gln Phe Asn Trp Tyr Val Asp Gly  
50 55 60

Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Phe Xaa  
65 70 75 80

Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp  
85 90 95

Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu Pro  
100 105 110

Ser Ser Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu  
115 120 125

Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu Glu Met Thr Lys Asn  
130 135 140

Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile  
145 150 155 160

Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr  
165 170 175

Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Arg  
180 185 190

Leu Thr Val Asp Lys Ser Arg Trp Gln Glu Gly Asn Val Phe Ser Cys  
195 200 205

Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu  
210 215 220

Ser Leu Ser Leu Gly Xaa

225

230

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<400> 8

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser  
 1 5 10 15

<210> 9  
 <211> 31  
 <212> PRT  
 <213> Homo sapiens

<400> 9

His Ala Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly  
 1 5 10 15

Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Arg Gly  
 20 25 30

<210> 10  
 <211> 71  
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<220>  
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<400> 10

His Gly Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Glu  
 1 5 10 15

Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Arg Gly Gly  
 20 25 30

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly  
 35 40 45

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Glu Ser  
 50 55 60

Lys Tyr Gly Pro Pro Cys Pro  
 65 70

<210> 11

<211> 9  
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<220>  
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<400> 11

Trp Leu Val Lys Gly Arg Gly Gly Gly  
 1 5

<210> 12  
 <211> 7  
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<220>  
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<400> 12

Trp Leu Val Lys Gly Gly Gly  
 1 5

<210> 13  
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<400> 13

Trp Leu Lys Asn Gly Gly Gly  
 1 5

<210> 14  
 <211> 7  
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<220>  
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<400> 14

Trp Leu Val Lys Gly Gly Pro  
 1 5

<210> 15  
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<400> 15

Trp Leu Lys Asn Gly Gly Pro  
1 5

<210> 16

<211> 6

<212> PRT

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<223> Synthetic Construct

<400> 16

Trp Leu val Lys Gly Gly  
1 5

<210> 17

<211> 6

<212> PRT

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<223> Synthetic Construct

<400> 17

Trp Leu Lys Asn Gly Gly  
1 5

<210> 18

<211> 6

<212> PRT

<213> Homo sapiens

<400> 18

Pro Pro Cys Pro Ser Cys  
1 5

<210> 19

<211> 22

<212> PRT

<213> Artificial

<220>

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<400> 19

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly  
1 5 10 15

Ser Gly Gly Gly Gly Ser  
20

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<210> 20  
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<212> DNA  
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gaattcatcg cctggctggt gaaggcgagg ggcgggtggt gtggctccgg aggcggcggc 120  
tctggtggcg gtggcagcgc tgagtccaaa tatgggtcccc catgcccacc ctgcccagca 180  
cctgaggccg ccggggggacc atcagttctc ctgttcccc caaaacccaa ggacactctc 240  
atgatctccc ggacccctga ggtcacgtgc gtgggtggtgg acgtgagcca ggaagacccc 300  
gaggtccagt tcaactggta cgtggatggc gtggagggtgc ataatgcca gacaaagccg 360  
cgggaggagc agttcaacag cagctaccgt gtggtcagcg tcctcacctg cctgcaccag 420  
gactggctga acggcaagga gtacaagtgc aagggtctcca acaaaggcct ccgctcctcc 480  
atcgagaaaa ccattctcaa agccaaaggg cagccccgag agccacaggt gtacaccctg 540  
cccccatccc agggaggagat gaccaagaac cagggtcagc tgacctgcct ggtcaaaggc 600  
ttctaccca gcgacatcgc cgtggagtgg gaaagcaatg ggcagccgga gaacaactac 660  
aagaccacgc ctcccggtct ggaactccgc ggctccttct tcctctacag caggctaacc 720  
gtggacaaga gcagggtgga ggagggaat gtcttctcat gctccgtgat gcatgaggct 780  
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<400> 21

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly  
1 5 10 15

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser  
20 25 30